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1. The use of either or both P₂O₅ and B₂O₃ as a component to improve the refractoriness of inorganic fibres comprising SiO₂, and CaO and/or MgO, to produce inorganic fibres having a composition having a shrinkage of less than 3.5% when exposed to 1000°C for 24 hours and having a shrinkage of less than 3.5% when exposed to 800°C for 24 hours, the fibres having a

The use of either or both P_2O_5 and B_2O_3 as a component to improve the refractoriness of inorganic fibres as claimed in claim 1 in which the percentage of non-bridging oxygens is less than 61.4%.

The use of either or both P_2O_5 and B_2O_3 as a component to improve the refractoriness of inorganic fibres as claimed in claim 1 in which the fibres fall within the compositional range: $52 - < 58 \text{wt}\% [52 - < 58 + 0.5 \times (\text{MgO}-10) \text{wt}\%]$

The use of either or both P2O5 and B2O3 as a component to improve the refractoriness of inorganic fibres in which the fibres fall within the 4.

compositional range:-44.34 - 62.48 SiO₂ 20.36 - 39.4wt% CaO 0.62 - 21.16wt% MgO 0 - 12.01wt% P_2O_5 0 - 3.54wt%

 B_2O_3

and in which $SiO_2 + P_2O_5 - (58 + (if MgO > 10, 0.5 \times (MgO - 10) else 0)) > -2.4wt%$

Saline soluble inorganic fibres having a shrinkage of less than 3.5% when exposed to 1000°C for 24 hours and having a shrinkage of less than 3.5% 5. when exposed to 8000 for 24 hours, in which:-

 $SiO_2 + P_2O_5 - (58 + (if MgO + 10, 0.5 \times (MgO - 10) else 0)) > -2.4wt%$ and comprising:-

<58wt% [52 - <58+0.5'(MgO-10)wt% if SiO₂ MgO > 10wt%

22 \40wt% CaO 0 - 1♥.5wt% MgO < 42 wt%MgO + CaO0.5 - 10wt% P_2O_5

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0 - 2wt% and in which the percentage of non-bridging oxygens calculated on the basis of the amounts of the above named components is less than 61.4%.

Saline soluble inorganic fibres having a shrinkage of less than 3.5% when exposed to 1000°C for 24 hours and having a shrinkage of less than 3.5% 6. when exposed to 800°C for 24 hours, in which:-

 $SiO_2 + P_2O_5 - (58 + (if MgO > 10, 0.5 \times (MgO - 10) else 0)) > -2.4wt\%$

and comprising:-SiO₂

44.34 - 62.48 20.36 - 39.4wt% CaO 0.62 \\21.16wt% MgO

and also comprising either or both of:-

0 - 12.01 wt% P_2O_5 0 - 3.54 wt% B_2O_3

> AMENDED SHEET IPEA EP

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Saline soluble inorganic fibres having a shrinkage of less than 3.5% when exposed to 1000°C for 24 hours and having a shrinkage of less than 3.5% when exposed to 800°C for 24 hours, in which:-

 $-SiO_2 + P_2O_5 - (58) + (if MgO) > -10, -0.5 \times (MgO - 10) else 0)) -> -2.4wt%$ and comprising

SiO₂

CaO

MgO

.96 - 17.4 wit%

 P_2O_5

0.82 - 7.8wt%

 B_2O_3

0 - 1.95wt%

 Al_2O_3

<1wt%

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